

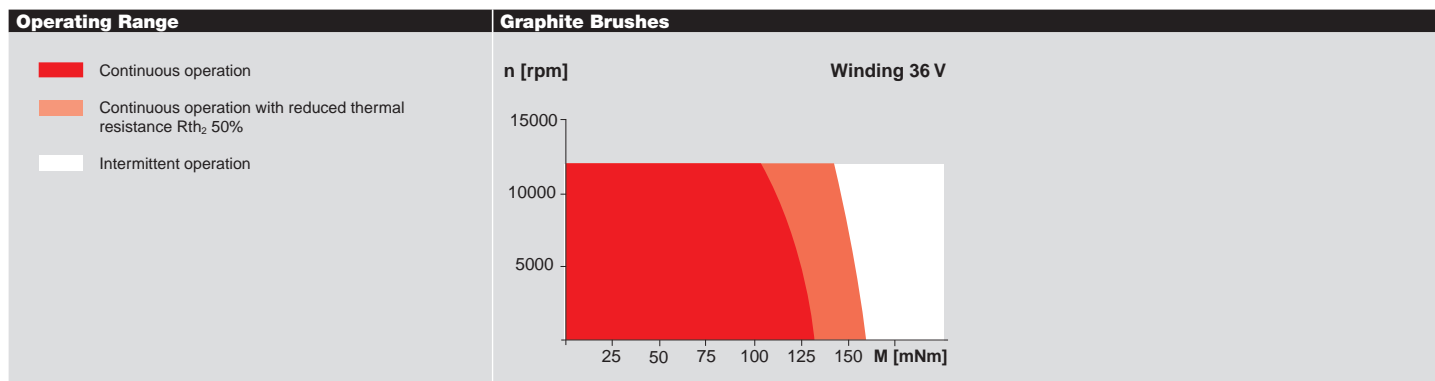
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[dcx.maxonmotor.com](http://dcx.maxonmotor.com)

## DCX 35 L brushed DC motor Ø35 mm

Configurable



Key Data		Graphite Brushes
Typical Speed/torque gradient	rpm/mNm	3.8
Max. nominal torque	mNm	138
Max. speed	rpm	12300
Max. continuous output power/assigned power rating	W	120/80
Max. efficiency	%	90
Ambient temperature	°C	-40 ... +100
Mech. time constant	ms	3.91
Therm. time constant winding	s	43.9
Rotor inertia	gcm <sup>2</sup>	98.6
Max. axial load (dynamic)	N	7
Max. radial load , 5 mm from flange	N	65.3
Typical noise level	dBA	48
Weight	g	385



Specifications	Graphite Brushes						
	V	12	18	24	36	48	60
Nominal voltage	V	12	18	24	36	48	60
No load speed	rpm	8130	7200	7720	7940	6670	7690
No load current	mA	320	177	146	101	58.6	57.5
Nominal current	A	6.00	5.32	4.26	3.07	2.08	1.84
Torque constant	mNm/A	13.7	23.4	29.3	42.9	68.3	74.1
Speed constant	rpm/V	699	408	326	223	140	129
Terminal resistance	Ω	0.079	0.212	0.346	0.716	1.76	2.16
Terminal inductance	mH	0.026	0.077	0.121	0.260	0.658	0.776

Configuration	dcx.maxonmotor.com
Bearing	Ball bearings preloaded
Commutation	Graphite brushes
Flange front/back	Standard flange/configurable flange/no flange
Shaft front/back	Length/diameter/flat face
Electric connection	Terminals or cable/alignment of connection/cable length/connector type

maxon Modular System	Page	Dimensions Standard Configuration	M 1:2
<b>maxon gear</b>			
GPX 42	35		
<b>maxon sensor</b>			
ENX 10 QUAD	38		
ENX 16 EASY	39		
ENX 16 EASY Absolute	40		
ENC SCH16F	catalogue		
ENC 30 HEDL 5540	catalogue		
<b>maxon motor control</b>			
ESCON 50/5	44		
ESCON Module 50/5	44		
ESCON 70/10	44		
EPOS2 24/5, EPOS2 50/5	44		
EPOS2 70/10	44		
EPOS2 P 24/5	44		
EPOS3 70/10 EtherCAT	44		
MAXPOS 50/5	44	Shortest configuration possible: 66.9 mm	

